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1   Replication for web hosting systems

Swaminathan Sivasubramanian, Michal Szymaniak, Guillaume Pierre, Maarten van Steen
September   ACM Computing Surveys (CSUR),   Volume 36 Issue 3
2004
Publisher: ACM

Full text available: 📄 Pdf (374.99 KB)

Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 36,   Downloads (12 Months): 373,   Citation Count: 7

Replication is a well-known technique to improve the accessibility of Web sites. It generally offers reduced client latencies and increases a site's availability. However, applying replication techniques is not trivial, and various Content Delivery Networks ...

Keywords: Web replication, content delivery networks

2 A taxonomy of Data Grids for distributed data sharing, management, and processing

Srikumar Venugopal, Rajkumar Buyya, Kotagiri Ramamohanarao
June   ACM Computing Surveys (CSUR),   Volume 38 Issue 1
2006
Publisher: ACM

Full text available: Pdf (1.70
MB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 167,   Downloads (12 Months): 1449,   Citation Count: 6

Data Grids have been adopted as the next generation platform by many scientific
communities that need to share, access, transport, process, and manage large data
collections distributed worldwide. They combine high-end computing technologies
with high-performance ...

Keywords: Grid computing, data-intensive applications, replica management, virtual
organizations

3 System support for pervasive applications

Robert Grimm, Janet Davis, Eric Lemar, Adam Macbeth, Steven Swanson, Thomas
Anderson, Brian Bershad, Gaetano Borriello, Steven Gribble, David Wetherall
November   ACM Transactions on Computer Systems (TOCS),   Volume 22 Issue 4
2004
Publisher: ACM

Full text available: Pdf (1.82
MB)   Additional Information: full citation, abstract, references, cited by, index
terms

Bibliometrics: Downloads (6 Weeks): 43,   Downloads (12 Months): 351,   Citation Count: 8

Pervasive computing provides an attractive vision for the future of computing.
Computational power will be available everywhere. Mobile and stationary devices will
dynamically connect and coordinate to seamlessly help people in accomplishing their
tasks. ...

Keywords: Asynchronous events, checkpointing, discovery, logic/operation pattern,
migration, one.world, pervasive computing, structured I/O, tuples, ubiquitous
computing

4   The state of the art in distributed query processing

Donald Kossmann
December   ACM Computing Surveys (CSUR),   Volume 32 Issue 4
2000
Publisher: ACM

Full text available: ▨Pdf (455.39   Additional Information: full citation, abstract, references, cited by,
KB)   index terms

Bibliometrics: Downloads (6 Weeks): 125, Downloads (12 Months): 1216, Citation Count: 45

Distributed data processing is becoming a reality. Businesses want to do it for many
reasons, and they often must do it in order to stay competitive. While much of the
infrastructure for distributed data processing is already there (e.g., modern
network ...

Keywords: caching, client-server databases, database application systems,
dissemination-based information systems, economic models for query processing,
middleware, multitier architectures, query execution, query optimization, replication,
wrappers

5   Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren
November   CASCON '97: Proceedings of the 1997 conference of the Centre for
1997   Advanced Studies on Collaborative research
Publisher: IBM Press

Full text available: ▨Pdf (4.21   Additional Information: full citation, abstract, references, index terms
MB)

Bibliometrics: Downloads (6 Weeks): 46, Downloads (12 Months): 619, Citation Count: 0

Understanding distributed applications is a tedious and difficult task. Visualizations
based on process-time diagrams are often used to obtain a better understanding of
the execution of the application. The visualization tool we use is Poet, an event ...

6   A formal model for reasoning about adaptive QoS-enabled middleware

Nalini Venkatasubramanian, Carolyn Talcott, Gul A. Agha
January   ACM Transactions on Software Engineering and Methodology
2004   (TOSEM), Volume 13 Issue 1
Publisher: ACM

Full text available: ▨Pdf (1.42   Additional Information: full citation, abstract, references, cited by, index
MB)   terms

Bibliometrics: Downloads (6 Weeks): 22, Downloads (12 Months): 144, Citation Count: 3

Systems that provide distributed multimedia services are subject to constant evolution; customizable middleware is required to effectively manage this change. Middleware services for resource management execute concurrently with each other, and with ...

Keywords: Middleware services, actors, meta-object models, multimedia, quality-of-service, reflection, theoretical foundations

7   An on-the-fly reference-counting garbage collector for java

Yossi Levanoni, Erez Petrank
January   ACM Transactions on Programming Languages and Systems
2006   (TOPLAS), Volume 28 Issue 1
Publisher: ACM

Full text available: Pdf (787.15 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 16, Downloads (12 Months): 155, Citation Count: 1

Reference-counting is traditionally considered unsuitable for multiprocessor systems. According to conventional wisdom, the update of reference slots and reference-counts requires atomic or synchronized operations. In this work we demonstrate this is ...

Keywords: Programming languages, garbage collection, memory management, reference-counting

8   A survey of peer-to-peer content distribution technologies

Stephanos Androutsellis-Theotokis, Diomidis Spinellis
December   ACM Computing Surveys (CSUR), Volume 36 Issue 4
2004
Publisher: ACM

Full text available: Pdf (517.77 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 221, Downloads (12 Months): 2165, Citation Count: 45

Distributed computer architectures labeled "peer-to-peer" are designed for the sharing of computer resources (content, storage, CPU cycles) by direct exchange, rather than requiring the intermediation or support of a centralized server or authority. ...

Keywords: Content distribution, DHT, DOLR, grid computing, p2p, peer-to-peer

9 Cache investment: integrating query optimization and distributed data placement

Donald Kossmann, Michael J. Franklin, Gerhard Drasch, Wig Ag

December   ACM Transactions on Database Systems (TODS),   Volume 25 Issue 4
2000

Publisher: ACM

Full text available: Pdf (210.67   Additional Information: full citation, abstract, references, cited by,
KB)   index terms

Bibliometrics: Downloads (6 Weeks): 18,   Downloads (12 Months): 108,   Citation Count: 8

Emerging distributed query-processing systems support flexible execution strategies
in which each query can be run using a combination of data shipping and query
shipping. As in any distributed environment, these systems can obtain tremendous
performance ...

Keywords: cache investment, caching, client-server database systems, data
shipping, dynamic data placement, query optimization, query shipping

10 ACM SIGMOBILE Mobile Computing and Communications Review: Volume 9
Issue 4

October   issue   Volume 9 Issue 4
2005

Publisher: ACM

Additional Information: full citation, index terms

Bibliometrics: Downloads (6 Weeks): n/a,   Downloads (12 Months): n/a,   Citation Count: 0

11 Experience distributing objects in an SMMP OS

Jonathan Appavoo, Dilma Da Silva, Orran Krieger, Marc Auslander, Michal Ostrowski,
Bryan Rosenburg, Amos Waterland, Robert W. Wisniewski, Jimi Xenidis, Michael Stumm,
Livio Soares

August   ACM Transactions on Computer Systems (TOCS),   Volume 25 Issue 3
2007

Publisher: ACM

Full text available: Pdf (751.56   Additional Information: full citation, abstract, references, index terms
KB)

Bibliometrics: Downloads (6 Weeks): 26,   Downloads (12 Months): 316,   Citation Count: 2

Designing and implementing system software so that it scales well on shared-
memory multiprocessors (SMMPs) has proven to be surprisingly challenging. To
improve scalability, most designers to date have focused on concurrency by
iteratively eliminating ...

Keywords: Concurrency, Distribution, Locality, Scalability SMMP

12 Design and evaluation of a conit-based continuous consistency model for replicated services

Haifeng Yu, Amin Vahdat
August   ACM Transactions on Computer Systems (TOCS),   Volume 20 Issue 3
2002
Publisher: ACM

Full text available: Pdf (406.85 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 22, Downloads (12 Months): 158, Citation Count: 10

The tradeoffs between consistency, performance, and availability are well understood. Traditionally, however, designers of replicated systems have been forced to choose from either strong consistency guarantees or none at all. This paper explores the ...

Keywords: Conit, consistency model, continuous consistency, network services, relaxed consistency, replication

13 Concurrency and distribution in object-oriented programming

Jean-Pierre Briot, Rachid Guerraoui, Klaus-Peter Lohr
September 1998 ACM Computing Surveys (CSUR),   Volume 30 Issue 3
Publisher: ACM

Full text available: Pdf (289.34 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 33, Downloads (12 Months): 310, Citation Count: 19

This paper aims at discussing and classifying the various ways in which the object paradigm is used in concurrent and distributed contexts. We distinguish among the library approach, the integrative approach, and the ...

Keywords: concurrency, distribution, integration, libraries, message passing, object, reflection

14 Securing distributed storage: challenges, techniques, and systems

Vishal Kher, Yongdae Kim
November   StorageSS '05: Proceedings of the 2005 ACM workshop on Storage
2005   security and survivability
Publisher: ACM

Full text available: Pdf (294.61 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 40, Downloads (12 Months): 360, Citation Count: 4

The rapid increase of sensitive data and the growing number of government regulations that require longterm data retention and protection have forced enterprises to pay serious attention to storage security. In this paper, we discuss important security ...

Keywords: authorization, confidentiality, integrity, intrusion detection, privacy

15 Niobe: A practical replication protocol

John Maccormick, Chandramohan A. Thekkath, Marcus Jager, Kristof Roomp, Lidong Zhou, Ryan Peterson
February   ACM Transactions on Storage (TOS),   Volume 3 Issue 4
2008
Publisher: ACM

Full text available: Pdf (480.00 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 21,   Downloads (12 Months): 193,   Citation Count: 0

The task of consistently and reliably replicating data is fundamental in distributed systems, and numerous existing protocols are able to achieve such replication efficiently. When called on to build a large-scale enterprise storage system with built-in ...

Keywords: Replication, enterprise storage

16 Zyzzyva: speculative byzantine fault tolerance

Ramakrishna Kotla, Lorenzo Alvisi, Mike Dahlin, Allen Clement, Edmund Wong
October 2007 ACM SIGOPS Operating Systems Review,   Volume 41 Issue 6
Publisher: ACM

Full text available: Pdf (462.29 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 47,   Downloads (12 Months): 275,   Citation Count: 2

We present Zyzzyva, a protocol that uses speculation to reduce the cost and simplify the design of Byzantine fault tolerant state machine replication. In Zyzzyva, replicas respond to a client's request without first running an expensive three-phase commit ...

Keywords: byzantine fault tolerance, output commit, replication, speculative execution

17 Zyzzyva: speculative byzantine fault tolerance

Ramakrishna Kotla, Lorenzo Alvisi, Mike Dahlin, Allen Clement, Edmund Wong
October   SOSP '07: Proceedings of twenty-first ACM SIGOPS symposium on
2007   Operating systems principles
Publisher: ACM

Full text available: Pdf (462.29 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 47, Downloads (12 Months): 275, Citation Count: 2

We present Zyzzyva, a protocol that uses speculation to reduce the cost and simplify
the design of Byzantine fault tolerant state machine replication. In Zyzzyva, replicas
respond to a client's request without first running an expensive three-phase
commit ...

Keywords: byzantine fault tolerance, output commit, replication, speculative
execution

18 Fast and flexible application-level networking on exokernel systems

Gregory R. Ganger, Dawson R. Engler, M. Frans Kaashoek, Hector M. Briceño, Russell
Hunt, Thomas Pinckney
February   ACM Transactions on Computer Systems (TOCS),   Volume 20 Issue 1
2002
Publisher: ACM

Full text available: Pdf (500.67 KB)   Additional Information: full citation, abstract, references, cited by,
index terms

Bibliometrics: Downloads (6 Weeks): 13, Downloads (12 Months): 73, Citation Count: 9

Application-level networking is a promising software organization for improving
performance and functionality for important network services. The Xok/ExOS
exokernel system includes application-level support for standard network services,
while at ...

Keywords: Extensible systems, OS structure, fast servers, network services

19 Separating agreement from execution for byzantine fault tolerant services

Jian Yin, Jean-Philippe Martin, Arun Venkataramani, Lorenzo Alvisi, Mike Dahlin
December 2003 ACM SIGOPS Operating Systems Review, Volume 37 Issue 5
Publisher: ACM

Full text available: Pdf (355.08 KB)   Additional Information: full citation, abstract, references, cited by,
index terms

Bibliometrics: Downloads (6 Weeks): 23, Downloads (12 Months): 91, Citation Count: 14

We describe a new architecture for Byzantine fault tolerant state machine replication that separates *agreement* that orders requests from *execution* that processes requests. This separation yields two fundamental and practically significant ...

Keywords: byzantine fault tolerance, confidentialiy, reliability, security, state machine replication, trustworthy systems

20   Separating agreement from execution for byzantine fault tolerant services

Jian Yin, Jean-Philippe Martin, Arun Venkataramani, Lorenzo Alvisi, Mike Dahlin
October   SOSP '03: Proceedings of the nineteenth ACM symposium on Operating
2003   systems principles
Publisher: ACM

Full text available: Pdf (355.08   Additional Information: full citation, abstract, references, cited by,
KB)   index terms

Bibliometrics: Downloads (6 Weeks): 23,   Downloads (12 Months): 91,   Citation Count: 14

We describe a new architecture for Byzantine fault tolerant state machine replication that separates *agreement* that orders requests from *execution* that processes requests. This separation yields two fundamental and practically significant ...

Keywords: byzantine fault tolerance, confidentialiy, reliability, security, state machine replication, trustworthy systems